

## SEPARATOR FOR ALKALINE SECONDARY BATTERY

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### Abstract

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**PROBLEM TO BE SOLVED:** To suppress a self-discharge by using a separator obtained by graft-polymerizing acrylic acid to fibers made by a melt-blow method with fused and softened polyolefin in an air current.

**SOLUTION:** A nonwoven fabric is produced with a polypropylene resin by so-called melt-blow method. A nonwoven fabric made of polyolefin fibers formed by the melt spinning method is thermally melted and attached onto the surface of the melt-blown nonwoven fabric to supplement the strength of this nonwoven fabric to obtain a composite-structure nonwoven fabric. This composite-structure nonwoven fabric is dipped in a mixed liquid constituted of water of 80wt.% serving as a solvent, benzophenone of 0.3wt.% serving as a polymerization initiator, and acrylic acid of 19.7wt.% serving as a vinyl monomer, ultraviolet rays are applied in the nitrogen atmosphere to graft-polymerize acrylic acid, then it is washed with water and dried to form the separator.

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